

APPENDIX I - EXEMPLARY JAVA CODE

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```
public abstract class HardwareRegistry
{
5      // This is the singleton hardware registry
      private static HardwareRegistry hwRegistry= null;

      // Prevents an application from instantiating a Hardware Registry
      protected HardwareRegistry() {}

10     // Get the singleton instance of the hardware registry, create it only if necessary.
      public HardwareRegistry getInstance()
      {
          if(hwRegistry != null)
15              return hwRegistry;
          else {
              // take steps to instantiate the hwRegistry, well known in the arts
              return hwRegistry;
          }
20     }

      // Lookup any hardware options belonging to a hardware option type
      public HardwareOption [ ] findHardwareOptions(String optionTypeName)
      {
25          // Take steps to search the hardware registry database for optionTypeName
          // Return null if not found or the array of found hardware options,
          }
      }

      public Interface HardwareOption
30     {

          // Get the well known string representing the hardware option type
          public String getOptionTypeName();

          // Get the name of any emedded device type specific association
35          public String getOptionAssociationName();

          // Get the name of the Java permission required to call getAPI
          public String getOptionPermission();
    }
```

```
// Get a reference to the API that accesses the actual hardware
// associated with the option
public Object getAPI();
```

5

```
// get the version number of the API
public int getVersionNumber();
```

```
}
```

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